

इंटरनेट

मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7398 (1974): Forceps, Bone Holding, Farabeuf's Pattern  
[MHD 2: Orthopaedic Instruments, Implants and Accessories]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

# SPECIFICATION FOR FORCEPS, BONE HOLDING, FARABEUFS PATTERN

**1. Scope** — Dimensions and other requirements for Farabeuf's pattern bone holding forceps, used in orthopaedic surgery.

**2. Shape and Dimensions** — As shown in Fig. 1.

## 3. Materials

**3.1 Arms** — Stainless steel conforming to Designation 30Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

**3.2 Screws** — Stainless steel conforming to Designation 20Cr13 of IS : 6603-1972.

## 4. Workmanship and Finish

**4.1** The forceps shall be free from rough edges, pits, burrs, cracks and grinding marks.

**4.2** The teeth on the jaws shall be well formed and clean.

**4.3** The two arms shall move freely and smoothly at the joint without any undue play.

**4.4** The forceps shall be finished smooth and passivated. The polishing shall be done in accordance with the choice of the consumer.

**5. Heat Treatment** — The forceps shall be hardened and tempered to give a hardness of 380 to 420 HV.

## 6. Tests

**6.1 Rigidity** — Hold a piece of hardwood, of minimum thickness of 12 mm, in the jaws of the forceps. Apply a compressive force of 1 000 N to the handles of the forceps at 20 mm distance from the free end. Allow the force to act for two minutes. On completion of the test, the forceps shall show no sign of damage or permanent set.

**6.2 Corrosion Resistance** — Scrub the forceps with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the forceps, immerse in copper sulphate solution at room temperature for 6 minutes and wash with fresh water or wet cotton wool. The composition of copper sulphate solution shall be as follows:

Copper sulphate ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ )	4.0 g
Sulphuric acid ( $\text{H}_2\text{SO}_4$ ) ( sp gr 1.84 )	10.0 g
Distilled water [ see IS : 1070-1960 Specification for water, distilled quality ( revised ) ]	90.0 ml

There shall be no red stains or spots on the forceps after the test, but dulling of the polished surface may be permitted.

**7. Marking** — The forceps shall be marked with the following:

- Manufacturer's name, initials or recognized trade-mark; and
- the words 'Stainless Steel'.

**7.1 ISI Certification Marking** — Details available with the Indian Standards Institution.

**8. Packing** — As agreed to between the purchaser and the supplier.

Adopted 9 September 1974

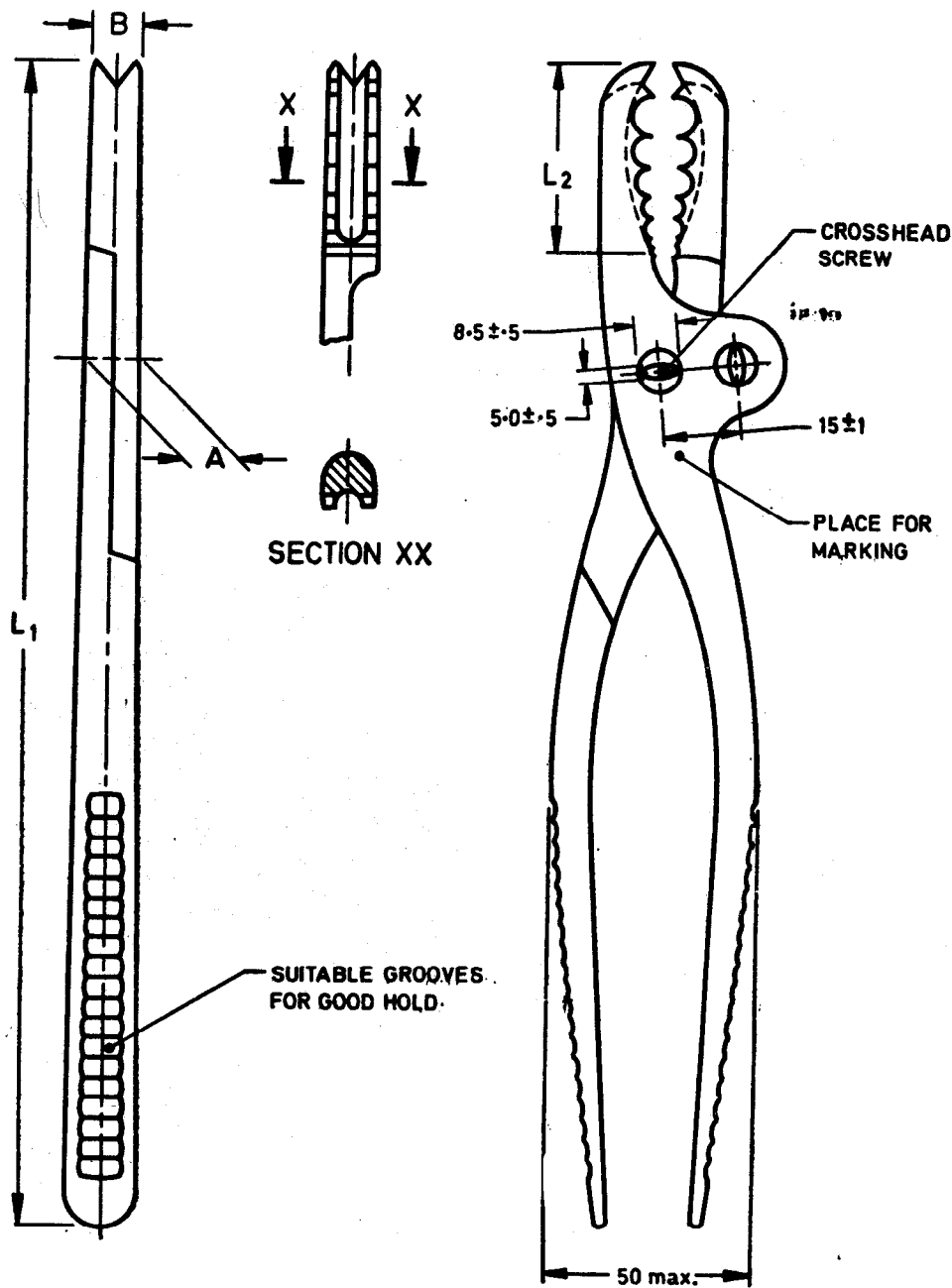
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INDIAN STANDARDS INSTITUTION

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$L_1$ $\pm 5$	$L_2$ $\pm 5$	$A$ $\pm 0.5$	$B$	Weight in g Approx
230	35	10.0	$9.5 \pm 0.5$	300
255	40	12.0	$11 \pm 1$	400

All dimensions in millimetres.

FIG. 1 FORCEPS, BONE HOLDING, FARABEU'S PATTERN